

UNIVERSITY OF RUHUNA
FACULTY OF FISHERIES AND MARINE SCIENCES & TECHNOLOGY

Academic Year 2022/2023

Bachelor of Science Honours in Fisheries and Marine Sciences Degree

Level III Semester II Examinations – October/November 2024

AQU 3222: Methods for Aquaculture II (for tropical shellfish and other organisms)

Time: 1 hour & 30 minutes

Answer any three (03) questions

01. (a) “Recirculation aquaculture system (RAS) is one of the best culture practices that can be applied for the economic and environmental sustainability in shrimp farming”. Justify the given statement. (50 marks)
- (b) Construct an essay on use of bio floc systems applicable in shrimp farming practices. (50 marks)
02. (a) “Different approaches of crab farming and fattening play crucial roles in supporting coastal economies while addressing the growing demand for seafood”. Discuss the given statement. (75 marks)
- (b) Summarize the process of maintaining the final product quality of crabs. (25 marks)

03. Assume that you are planning to establish a *Eucheuma* farm in Southern coast of Sri Lanka. Discuss the procedures and requirements that must be considered at the beginning to obtain a good harvest.

(100 marks)

04. "Crocodile farming and ranching are two forms of intensive animal husbandry which are established to address the rapid increment of the demand for crocodile skin and meat". Justify this statement.

(100 marks)

05. Write short accounts on **any four (04)** of the following.

- (a) Grow out systems used in *Macrobrachium rosenbergii* farming
- (b) Feed management of shrimp aquaculture
- (c) Lobster farming methods
- (d) Feeding and water quality management of frog culture
- (e) Pros and cons in mussels and scallops culture methods

(100 marks)

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